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Environmental Consultants and Contractors, Inc.



November 12, 2008

43045 John Mosby Highway
Chantilly, Virginia 20152
Tel: 703-327-2900
800-ECC-FIRST
Fax: 703-327-2777

Mr. Stuart Dziura
Vice President
Smoot Construction
5335 Wisconsin Avenue, N.W., Suite 940
Washington, D.C. 20015

Re: Asbestos Inspection Report
5201 Hayes Street, N.E.
Washington, D.C. 20019
ECC Project #08-9634

Dear Mr. Dziura:

Environmental Consultants and Contractors (ECC), Inc., is pleased to present this summary of the asbestos inspection and bulk sampling performed at the referenced property. The property is improved with an approximately 34,000 square foot vacant, single-story building planned for demolition by conventional means.

Asbestos Inspection

As authorized, ECC representatives Michelle Huston and Corey Ashford performed the asbestos inspection of the structure on November 5, 2008. The asbestos inspection and collection of bulk samples from suspect asbestos-containing materials (ACMs) were performed in order to conform with Federal and District of Columbia regulations requiring an asbestos inspection of a building prior to demolition. Ms. Huston is a Virginia-licensed asbestos inspector (License #3303 003228, expires November 30, 2009, recognized by the District of Columbia).

The building is constructed of brick walls with a slab on grade foundation and an flat built-up asphalt and corrugated metal roof. Interior finishes were limited to offices, show rooms, and a fitness room, and consisted of drywall and plaster systems, acoustic ceiling tile, and wood panels.

The inspection was performed following inspection and sampling guidelines established by the United States Environmental Protection Agency (EPA) Asbestos Hazard Emergency Response Act (AHERA) to address asbestos hazards in schools. The guidelines include the following:

- Collection of three samples from each type of suspect thermal system insulation in a building including boiler insulation, pipe insulation, tank insulation, and breeching insulation;
- Collection of three samples from suspect surfacing materials such as spray-applied fireproofing or acoustical treatment of a quantity less than 1,000 square feet, five

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samples if the quantity is greater than 1,000 square feet but less than 5,000 square feet, and seven samples if the quantity is greater than 5,000 square feet (9 recommended).

- Collection of at least one sample from suspect miscellaneous materials such as vinyl floor tile, acoustical ceiling tile, and drywall system.

ECC collected 16 samples from suspect asbestos-containing materials and submitted the samples to Aerobiology Laboratory Associates, Inc., a licensed and accredited laboratory located in Dulles, Virginia, for analysis by Polarized Light Microscopy (PLM) EPA Method 600/R-93/116. The laboratory identified and analyzed 16 layers in the bulk samples. Copies of the laboratory Certificates of Accreditations and Certificates of Analysis are attached. The laboratory results are summarized in Table 1.

Table 1
Summary of Bulk Sample Results

Sample Number	Sample Material	Location: quantity	Asbestos Content
HS-1	Drywall and joint compound	Ceiling and offices; 3,000 ft ²	None Detected
HS-2	Plaster	Ceiling; 25,000 ft ²	None Detected
HS-3	Plaster	Ceiling; 25,000 ft ²	None Detected
HS-4	Plaster	Ceiling; 25,000 ft ²	None Detected
HS-5	2x4-foot acoustic ceiling tile	Ceiling; 7,000 ft ²	None Detected
HS-6	Plaster	Ceiling; 25,000 ft ²	None Detected
HS-7	Plaster	Ceiling; 25,000 ft ²	None Detected
HS-8	Plaster	Ceiling; 25,000 ft ²	None Detected
HS-9	Plaster	Ceiling; 25,000 ft ²	None Detected
HS-10	Plaster	Ceiling; 25,000 ft ²	None Detected
HS-11	Plaster	Ceiling; 25,000 ft ²	None Detected
HS-12	Asphalt/tar	Roofing; 34,000 ft ²	15% Chrysotile
HS-13	Textured ceiling	Fitness room; 300 ft ²	None Detected
HS-14	Textured ceiling	Fitness room; 300 ft ²	None Detected
HS-15	Textured ceiling	Fitness room; 300 ft ²	None Detected
HS-16	Ceiling patch	Ceiling adjacent to fitness room; 20 ft ²	None Detected
Samples Analyzed at Aerobiology Laboratory Associates, Inc., Dulles, Virginia, by Polarized Light Microscopy (PLM).			

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Conclusions and Recommendations

Laboratory analysis detected 15% chrysotile asbestos in built-up roofing. This ACM is a non-friable Category I ACM.

A non-friable Category I ACM (i.e. roofing material) may remain in the structure during conventional demolition, provided it remains non-friable (is not burned, sanded, ground, or abraded) and is adequately wetted to prevent visible (dust) emissions. The demolition debris may be disposed of at some landfills, but certain landfills will not accept Category I non-friable ACM or will impose a surcharge to accept this type of waste. ECC recommends determining which landfills will accept unregulated non-friable Category I ACM. OSHA requires notifying the landfill and demolition contractor that the debris includes unregulated non-friable Category I ACM; ECC recommends this notification be made in writing with receipt confirmation.

Non-friable Category I ACMs are required to be abated by a licensed asbestos abatement contractor prior to demolition if the demolition activities will render the ACM friable. Note that the EPA requires notification, separate from the permit, prior to any demolition.

ECC is please to have assisted you with this project. If you have any questions or comments regarding this information, please feel free to contact this office at (703) 327-2900.

Sincerely,
for ECC, Inc.,

Michelle D. Huston

Michelle D. Huston
Manager of Industrial Hygiene Services

Thomas Hardy

Thomas M. Hardy
President

attachments:

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Attachment A

Laboratory Certificates of Analysis and Accreditation

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ecc

Certificate of Analysis

ECC
 43045 John Mosby Highway
 Chantilly, VA 20152
 Attn: Michelle Huston
Client Project Name: 5201 Hayes St. NE. (08-9634)



Date Collected: 11/05/08
 Date Received: 11/05/08
 Date Analyzed: 11/06/08
 Date Reported: 11/07/08
 Project ID: A80157
 Job ID: 881470

Test Requested: 3002, Asbestos in Bulk Samples
Method: Polarized Light Microscopy / Dispersion Staining (PLM), Method for the Determination of Asbestos in Bulk Building Materials, EPA-600/R-93/116, July 1993.

Client	Sample Identification Lab Sample Number	Physical Description of Sample; Additional Comments	Homo- geneous (yes/no)	Number of Layers	Asbestos Detected		Non-Asbestos Fibers (area %)	Non-Fibrous Material (area %)	Matrix Material (composition)
					Chrysotile (%)	Amphibole (%)			
HS-1	A80157-001	Off-White Drywall	Yes	1	ND1	ND1	CELL (15)	85	C, OP, G
HS-2	A80157-002	Off-White Drywall	Yes	1	ND1	ND1	CELL (15)	85	C, OP, G
HS-3	A80157-003	Off-White Drywall	Yes	1	ND1	ND1	CELL (15)	85	C, OP, G
HS-4	A80157-004	Off-White Drywall	Yes	1	ND1	ND1	CELL (15)	85	C, OP, G
HS-5	A80157-005	Beige Semi-Fibrous Material With Paint	No	2	ND1	ND1	CELL (35) MW (15)	50	P, C, OP
HS-6	A80157-006	Off-White Semi-Fibrous Plaster	Yes	1	ND1	ND1	CELL (10)	90	C, OP, G
HS-7	A80157-007	Off-White Semi-Fibrous Plaster	Yes	1	ND1	ND1	CELL (10)	90	C, OP, G
HS-8	A80157-008	Off-White Drywall	Yes	1	ND1	ND1	CELL (15)	85	C, OP, G
HS-9	A80157-009	Off-White Semi-Fibrous Plaster	Yes	1	ND1	ND1	CELL (10)	90	C, OP, G
HS-10	A80157-010	Off-White Semi-Fibrous Plaster	Yes	1	ND1	ND1	CELL (10) FBG (Trace)	90	C, OP, G

A = Amosite
 AC = Actinolite
 AN = Anthophyllite
 CR = Crocidolite
 TR = Tremolite
 ND1 = None Detected
 Trace = Less Than 1%

CELL = Cellulose
 MW = Mineral Wool
 FBG = Fiberglass
 SYN = Synthetic
 WO = Wollastonite
 NTR = Non-Asbestiform TR
 NAC = Non-Asbestiform AC
 FT = Fibrous Talc
 AH = Animal Hair

O = Quartz
 C = Carbonates
 V = Vermiculite
 G = Gypsum
 M = Mica
 T = Talc
 P = Perlite
 O = Organic
 B = Binder
 OP = Opauques
 D = Diatoms

Cathy Piccione
 Cathy Piccione
 Technical Supervisor

Cathy Piccione
 Cathy Piccione
 Laboratory Analyst

Certificate of Analysis

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NVLAP
 #200829-0

ECC
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 Chantilly, VA 20152
 Attn: Michelle Huston
 Client Project Name: 5201 Hayes St. NE. (08-9634)

Test Requested: **3002, Asbestos in Bulk Samples**
 Method: **Polarized Light Microscopy / Dispersion Staining (PLM), Method for the Determination of Asbestos in Bulk Building Materials. EPA-600/R-93/116, July 1993.**

Client	Sample Identification Lab Sample Number	Physical Description of Sample; Additional Comments	Homo- genous (yes/no)	Number of Layers	Asbestos Detected		Non-Asbestos Fibers (area %)	Non-Fibrous Material (area %)	Matrix Material (composition)
					Chrysotile (%)	Amphibole (%)			
HS-11	A80157-011	Off-White Semi-Fibrous Plaster	Yes	1	ND1	ND1	CELL (10)	90	C, OP, G
HS-12	A80157-012	Black Semi-Fibrous Tar	Yes	1	15	ND1	CELL (Trace)	85	T, B, OP
HS-13	A80157-013	Off-White Drywall	Yes	1	ND1	ND1	CELL (15) FBG (Trace)	85	C, OP, G
HS-14	A80157-014	Off-White Drywall	Yes	1	ND1	ND1	CELL (15) FBG (Trace)	85	C, OP, G
HS-15	A80157-015	White Fibrous Material with White Skimcoat/Joint Compound	No	2	ND1	ND1	CELL (35)	65	C, OP, M
HS-16	A80157-016	White Skimcoat/Joint Compound With Paint	No	2	ND1	ND1	CELL (Trace)	>99	C, OP, P, M

A = Amosite
 AC = Actinolite
 AN = Anthophyllite
 CR = Crocidolite
 TR = Tremolite
 ND1 = None Detected
 Trace = Less Than 1%

CELL = Cellulose
 MW = Mineral Wool
 FBG = Fiberglass
 SYN = Synthetic
 WO = Wollastonite
 NTR = Non-Asbestiform TR
 NAC = Non-Asbestiform AC
 FT = Fibrous Talc
 AH = Animal Hair

O = Quartz
 C = Carbonates
 V = Vermiculite
 G = Gypsum
 M = Mica
 T = Tar
 P = Perlite
 O = Organic
 B = Binder
 OP = Opaques
 D = Diatoms

Cathi Piccione
 Cathi Piccione
 Technical Supervisor

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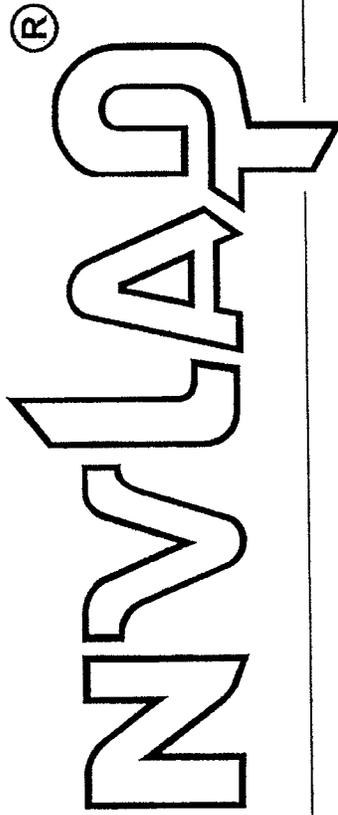
General Notes

- ND 0.25 indicates no asbestos was detected; the method detection limit is 0.25%.
- Trace indicates asbestos was identified in the sample, but the concentration is less than the method detection limit of 0.25%.
- All regulated asbestos minerals (i.e. chrysotile, amosite, crocidolite, anthophyllite, tremolite, and actinolite) were sought in every layer of each sample, but only those asbestos minerals detected are listed. Amosite is the common name for the asbestiform variety of the minerals cummingtonite and grunerite. Crocidolite is the common name used for the asbestiform variety of the mineral riebeckite.
- Tile, vinyl, foam, plastic, and fine powder samples may contain asbestos fibers of such small diameter (< 0.25 microns in diameter) that these fibers cannot be detected by PLM. For such samples, more sensitive analytical methods (e.g. TEM, SEM, and XRD) are recommended if greater certainty about asbestos content is required. Semi-quantitative bulk TEM floor tile analysis is accepted under the NESHAPS regulations.
- These results are submitted pursuant to Aerobiology's current terms and conditions of sale, including the company's standard warranty and limitation of liability provisions. No responsibility or liability is assumed for the manner in which the results are used or interpreted.
- Unless notified in writing to return the samples covered by this report, Aerobiology Laboratory will store the samples for a minimum period of thirty (30) days before discarding. A shipping and handling charge will be assessed for the return of any samples.

Notes Required by NVLAP

- PLM coefficients of variance (relative standard deviation) range from approximately 0.6 (1% standard deviation) at low fiber concentrations to 0.1 (8% standard deviation) at high fiber concentrations.
- This test report relates only to the items tested or calibrated.
- This report is not valid unless it bears the name of a NVLAP-approved signatory.
- Any reproduction of this document must include the entire document in order for the report to be valid.

United States Department of Commerce
National Institute of Standards and Technology



Certificate of Accreditation to ISO/IEC 17025:2005

NVLAP LAB CODE: 200829-0

Aerobiology Laboratory Associates, Inc.
Dulles, VA

is accredited by the National Voluntary Laboratory Accreditation Program for specific services,
listed on the Scope of Accreditation, for:

BULK ASBESTOS FIBER ANALYSIS

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005.
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality
management system (refer to joint ISO-ILAC-IAF Communiqué dated 18 June 2005).

2008-04-01 through 2009-03-31

Effective dates



Dolly S. Bruce
For the National Institute of Standards and Technology